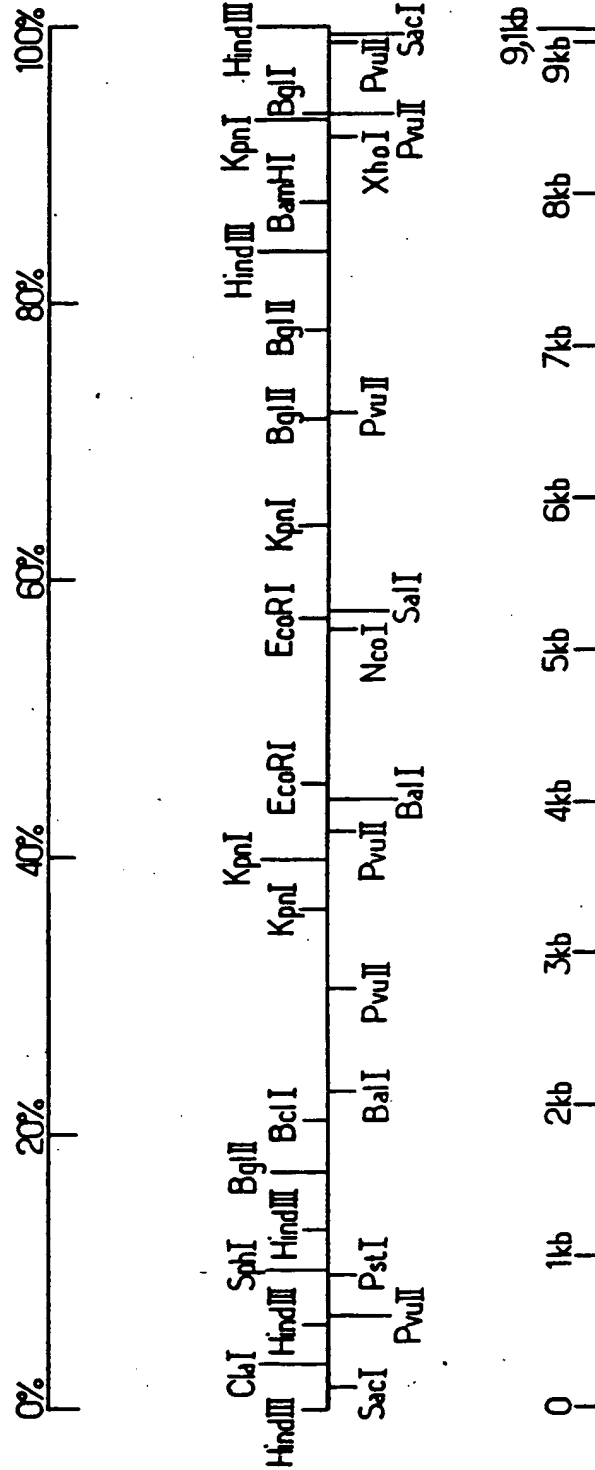


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FIG.1.



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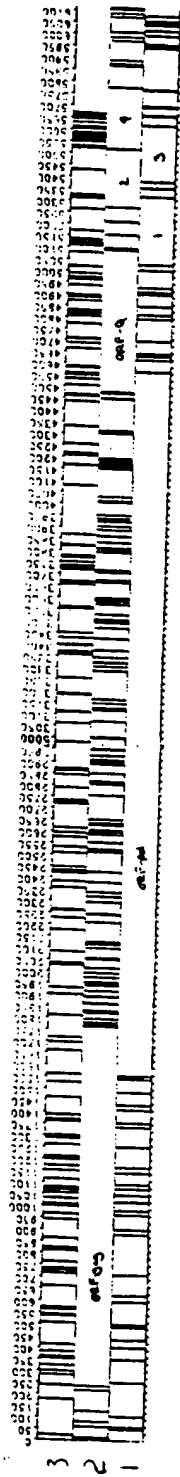


Fig. 2

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Fig. 4

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8
Fig.

fig 13

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V * G E U E * E P V D P R L E P W K 00 026736 P
T F E S K K W S D * I L D * S P G S I D E V S L
CAACAGAGGAGAGCAAGAAATGCAAGCCAGTAGATCCTAGACTAGAGCCCTGGAAGCATCCAGGAAGTCAGCCTA
5240 5300 5310 5320 5330 5340 5350

* P S L F H N K S L R H L L W O E E A E T A T K T S
Q V C F T T K A L G I S Y G R K K R R O R R P P
K F V S O Q K P * A S P M A G R S G D S D E D L
CCAAGTTTGTTCACAACAAAAGCCTTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGACCTCC
5410 5420 5430 5440 5450 5460 5470

S T C N A T Y T N S N S S I S S S N N N S N S C V
V H V M O P I I A I A A L V V A I I I A I V V
Y * C N L Y K * Q * G H * * * O * * * O * L C
AGTACATGTAATSCAACCTATACAAATAGCAATAGCAGCATTAGTAGCAATAATAATAGCAATAGTTGTGTG
5530 5540 5550 5560 5570 5580 5590

* * V N * * T N R K S R R O W O * E * R R N I S
I D K L I D R L I E R A E D S G N E S E G E I S A
* T G * L I D * * K E Q K T V A M R V K E K Y J
AATAGACAGGTTAATTGATAGACTAATACAAAGAGCAGAAGACAGTGGCAATGAGAGTGAAGGAGAAATATCAGC
5650 5660 5670 5680 5690 5700 5710

Y * * S V V L O K N C G S O S I M G Y L C G F K O
I D O L * C Y R K I V G H S L L W G T C V E C S N
L M I C S A T E K L W V T V Y Y G V P V W K E A
TATTGATGATCTGTAGTCTACAGAAAAATTGTGGGTACAGTCTATTATGGGGTACCTGTGTGGAAGCAACCA
5770 5780 5790 5800 5810 5820 5830

K Y I M F G P H M P V Y P G T P T H K K * Y * *
G T * C L G H T C L C T H R P Q P T R S S I G V
V H N V W A T H A C V P T O P N P O E V V L V
AGGTACATAATGTTTGGCCACAGATGCCTGTGTACCCACAGACCCCAACCCACAAGAAGTAGTATTGGTAAATG
5870 5900 5910 5920 5930 5940 5950

C M R I * S V Y G I K A * S H V * N * P H S V L V
A * G Y N U F M G S K P K A M C K I N P T L C A F
H E D I I S L W D S L K P C V K L T P L C V S
TGCATGAGGATAAATCAGTTTATGGGATCAAAAGCCTAAAGCCATGTGTAAAAATTAACCCCACTCTGTGTAGTT
6010 6020 6030 6040 6050 6060 6070

I P I V V A G K * * W R K E R * K T A L S I S A O
Y Q * * * K G N D D G E R R D K K I L F O Y O H K
T M S S S G G E M M M E K G E I K N C S F N T S T
ATACCAATAGTAGTACGGGGAAATGATGATGGAGAAAGGAGAGATAAAAAAAGTCTCTTTCAATATCAGCAGAA
6130 6140 6150 6160 6170 6180 6190

L I * Y Q * I M I L P A I R * J V V T P O S L H R
* Y N T H R * * Y Y O L Y V O K L * H L S H Y T O
D I I P I D N D T T S Y T L T S C N T S V I T O
TTGATATAATACCAATAGATAATGATACTACCAGCTATACGTTGACAAGTTGTAACACCTCAGTCATTACACAGCC
6250 6260 6270 6280 6290 6300 6310

P R L V L V F * N V I I R S M E O D H V O M S A

Fig 14

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G S O P K T A C T T C Y C K K C C F H C
Q E V S L K L L V P L A I V K S V A F I A
AGGAAGTCAGCCTAAAGCTGCTGTACCACCTTGCTATTGTAAAAAGTGTGCTTTTCATTG
5350 5360 5370 5380 5390 5400

A T K T S S R O S D S S S F S I K A V S
U R R R P P Q G S G T H C V S L S K O * V
S D E D L L K A V R L I K F L Y O S S K *
AGCGACGAAGACCTCCTCAAGGCAGTCAGACTCATCAAGTTTCTCTATCAAAGCAGTAAGT
5470 5480 5490 5500 5510 5520

S N S C V V H S N H R I * E N I K T K K
A I V V W S I V I I E Y R K I L R O R K
* O * L C G P * * S * N I G K Y * D K E K
TAGCAATAGTTGTGGTCCATAGTAATCATAGAATATAGGAAAAATTAAGACAAAGAAA
5590 5600 5610 5620 5630 5640

R R N I S T C G D G G G N G A P C S L G
G E I S A L V E M G V E M G H H A P W O
K E K Y Q H L W R W G W K W G T H L L G I
AGGAGAAATATCAGCACTTGTGGAGATGGGGGTGGAAATGGGCACCATGCTCCTTGGGA
5710 5720 5730 5740 5750 5760

C G F K Q P P L Y F V H Q M L K H M I Q
V E G S N H H S I L C I * C * S I * Y R
V W K E A T T T L F C A S D A K A Y D T E
TGTGGAAGCAAGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAG
5830 5840 5850 5860 5870 5880

* Y * * M * O K I L T C G K M T W * N R
S I G K C D R K F * H V E K * H G R T D
V V L V N V T E N F N M * K N O M V E O M
TAGTATTGGTAAATGTGACAGAAAAATTTAACATGTGGAATAATGACATGGTAGAACAGA
5950 5960 5970 5980 5990 6000

H S V L V * S A L I W G * L L I P I V V
T L C * F K V H * F G E C Y * Y O * *
O L C V S L K C T D L G N A T N T N S S N
CACTCTGTGTTAGTTTAAAGTGCACTGATTTGGGGATGCTACTAATACCAATAGTAGTA
6070 6080 6090 6100 6110 6120

S I S A O A * E V R C P K N M H F F I N
O Y O H K H K R * G A E R I C I F L * T
F N I S T S I R G K V G K E Y A F F Y K L
TCAATATCAGCACAAGCATAAGAGGTAAGGTCCAGAAAGAAATATGCATTTTTTTATAAAC
6170 6200 6210 6220 6230 6240

U S L H R P V Q R Y P L S O F P Y I I V
S H Y T G L S K G I L * A N S H T L L C
S V I T O A C P K V S F E P I P I H Y C A
CAGTCATTACACAGGCTGTCCAAAGGTATCCTTTGAGCCAATTCCCATACATTATTGTG
6310 6320 6330 6340 6350 6360

V Q M S A O Y N V H * F L G C * Y O L N

Fig 15

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P G W F C D S K * * * V J W N R T M Y K C Q
P A G F A I L K C N * * * F N G T G P C T N V S
CCCCGGCTGGTTTTGCGATTCTAAAATGTAATAAGACGTTCAATGGAACAGGACCATGTACAAATGTCAGC
6370 6390 6390 6400 6410 6420 6430

C C * N A V * Q K K R * * L D L P I S O T M L K P
A V E W S S R R R G S N * I C O F H K Q C * N
L L N G S L A E E E V V I R S A N E T D N A K T
TGCTGTTGAATGGCAGTCTAGCAGAAGAAGAGGTAGTAATTAGATCTGCCAATTTACAGACAATGCTAAAAC
6490 6500 6510 6520 6530 6540 6550

P T T I Q E K V S V S R G D U G E H L L Q * E K *
U G J Y K K K Y P E G T R E S I C Y N P K N
N N N T R K S I R I O R G P G R A F V T I G K I
CCAACAACAATACAAGAAAAAGTATCCGTATCCAGAGGGAGGACGATTTGTTACATAGGAAAAATA
6610 6620 6630 6640 6650 6660 6670

M P L * N R * L A N * E N N L E I I K Q * S L S N
C H F K T D S * Q I K R T I W K * * N N N L * A
N T L K Q I A S K L R E O F G N N K T I I F K Q
ATGCCACTTTAAACAGATAGCTAGCAAATTAAGAGAACAATTTGGAATAATAAAACAATAATCTTTAAGCAA
6730 6740 6750 6760 6770 6780 6790

I G N F S T V I O H N C L I V L G L I V L G V L K
K G I F L L * E N T T V * * Y L V * * Y L E Y *
S E F F Y C N S T Q L F N S T W F N S T W S T E
GAGGGGAATTTTCTACTGTAATTCACACAACCTGTTTAATAGTACTTGGTTTAATAGTACTTGGAGTACTGAA
6850 6860 6870 6880 6890 6900 6910

E * N N L * T C G R K * E K Q C M P L P S A D K L
N K T I Y K H V A G S R K S N V C P S H Q R T N
I K Q F I N M W O E V G K A M Y A P P I S G Q I
GAATAAACAATTTATAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCTCCCATCAGCGGACAAATT
6970 6980 6990 7000 7010 7020 7030

V I T T M G P R S S D L E E E I * G T I G E V N Y
* * O O W V R D L O T W R R Y E G O L E K * I I
N N N N G S E I F R P G G G O M R D N W R S E L
GTAATAACAACAATGGGTCGAGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
7090 7100 7110 7120 7130 7140 7150

P R Q R E E W C R E K K E Q W E * E L C S L G S W
O G K E K S G A E R K K S S G N R S F V P W V L G
K A K R V Q R E K R A V G I G A L F L G F L
CCAAGCCAAGAGAGAGTGGTCAGAGAGAAAAAGAGCACTGGGAATAGGAGCTTTGTTCTTGGGTTCTTGG
7210 7220 7230 7240 7250 7260 7270

Y R P D N Y C L V * C S S R T I C * G L L R R N S
T G O T I I V W Y S A A A E J F A E G Y * G A T A
O A R O L L S G I V O O Q N N L L R A I E A O O
TACAGGCCAGACAATTATTGCTGTTATAGTCCAGCAGGACAACAATTTGCTGAGGGCTATTGAGGCCAACAGC
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E S A L W K D T * R I N S S W G F G V A L E N S F

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Fig. 16

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N R T M Y K C G H S T M Y T X N * A S S I N S T
D G P C T N V S T V O C T H G I R O V V S T U L
AACAGGACCATGTACAAATGTCAGCACAGTACAATGTACACATGCAATTAGGCCAGTAGTATCAACTCAAC
6420 6430 6440 6450 6460 6470 6480

P I S O T M L K P * * Y S * T V L * K L I V U D
O F H R O C * N H N S T A E P I C R N * L Y K T
N F D N A K T I I V O L N O S V E I N C T R P
CAATTTTCACAGACAATGCTAAAACCATATAGTACAGCTGAACCAATCTGTAGAAATTAATTGTACAAGAC
6540 6550 6560 6570 6580 6590 6600

F H L L Q * E K * E T * D K H I V T L V F O N G
S I C Y V P K N O K Y E T S T L * H * * S K M E
A F V T I G K I G N * R Q A H C N I S R A K W N
AGCATTGTACATAGGAAAAATAGGAAATATGAGACAAGCACATTTGTAACATTAGTAGAGCAAAATGGA
6660 6670 6680 6690 6700 6710 6720

I I K Q * S L S N P O E G T O K L * R T V L I V
* * N * V L * A I L R R G P R N C N A O F * L W
N K T I I F K O S S G G O P E I V T H S F N C G
TAATAAAACAATAATCTTTAAGCAATCCTCAGGAGGGGACCCAGAAATTGTAACGCACAGTTTAAATTGTG
6780 6790 6800 6810 6820 6830 6840

L I V L G V L K G O I T L K E V T O S H S H A
V * * Y L E Y * R V K * H * R K * H V H T P M C
N S T W S T E G S N V T E G S O T I T L P C R
TTTAATAGTACTGGAGTACTGAAGGCTCAATAACACTGAAGGAAGTGACACAATCACACTCCCATGCA
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P L P S A D K L D V H O I L G G C Y * O E M V
C P S H O R T N * M F I K Y Y R A A I N K R W W
A P P I S G O I R C S S N I T G L L L T R D G G
TGGCCCTCCCATCAGCGGACAAATAGATGTTCAATAATATTACAGGCTGCTATTAACAAGAGATGGT
7020 7030 7040 7050 7060 7070 7080

G T I G E V N Y I N I K * * K L N H * E * H P
E G O L E K * I I * I * S S K V * T I R S S T H
R D N W R S E L Y K Y K V V K I E P L G V A P T
GAGGGACAATFGGAGAAGTGAATTATATAAATATAAAGTACTAAAAATTGAACCATAGGAGTAGCACCCA
7140 7150 7160 7170 7180 7190 7200

E L C S L G S W E O D E A L W A H G O * R * R
R S F V P W V L G S S R K H Y G R T V N D A D G
G A L F L G F L G A A G S T M G A R S M T L T V
AGGAGCTTTGTTCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCACGGTCAATGACGCTGACGG
7260 7270 7280 7290 7300 7310 7320

* G L L R R N S I C C N S O S G A S S S S R O
A E G Y * G A T A S V A T H S L G H D A A P G K
L R A I E A O O H L L O L T V W G I K O L O A R
CTGAGGGCTATTGAGCGGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCAGGCAA
7380 7390 7400 7410 7420 7430 7440

G V A L E N S F A P L L C L G * L V G V I N L 28

Fig 17

771248

08 026736

N P G C G K I P K G S T A P G D L G L
I L A V E R Y L K D O U L L G I W G C S G K L I
GAATCCTGGCTGTGAAAGATACCTAAAGGATCAACAGCTCCTGGGATTTGGGGTTGCTCTGGAAAACATCAT
7450 7460 7470 7480 7490 7500 7510

W N R F G I T * P G W S G T E K L T I T O A * Y
G T D L E * H D L D G V G D R N * D L H K L N T
E D I W N N Y T W M E M D R E I N N Y T S L I H
TGGAACAGATTGGAATAACATGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACA
7570 7580 7590 7600 7610 7620 7630

N Y * N * I N G O V C S I G L T * S I G C G I *
I I G I R * M G K F V E L V * N K L A V V Y K
L L E L D K W A S L W N W F N I T H W L W Y I K
AATTATTGGAATTAGATAAATGGGCAAGTTTGTGGAATTGGTTTAAATAACAAATTGGCTGTGGTATATAAA
7690 7700 7710 7720 7730 7740 7750

L L Y F L * * I E L G R D I H H Y R F R P T S O
C C T F Y S E * S * A G I F T I I V S D P P P N
A V L S I V / N R V R O G Y S P L S F O T H L P T
TTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTTTCAGACCCACCTCCCAAC
7810 7820 7830 7840 7850 7860 7870

R E T E T D P F D * * T D P * H L S G T I C G A
E R U P D I H S I S E R I L S T Y L G R S A E P
R D R D R S I R L V N G S L A L I W D D L R S L
AGAGACAGAGACAGATCCATTGATTGAGGATCCTTAGCACTTATCTGGGACGATCTGCGGAGCCT
7930 7940 7950 7960 7970 7980 7990

T R I V E L L G R G H E A L K Y W W N L L O Y
R G L W N F A D A G G G K P S N I G G I S Y S I
E D C G T S G T O G V G S P O I L V E S P T V L
ACGAGGATTGTGGAAGTTCTGGGACCGAGGGGTGGGAAGCCCTCAAATATTGGTGAATCTCTACAGTATT
8050 8060 8070 8080 8090 8100 8110

A I A V A E G T D R V I E V V O G A C R A I R H I
P * J * L R G O I G L * K * Y K E L V E L F A T
H S S S * G D R * G Y K S S T R S L * S Y S P H
GCCATAGCAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTACAGGACCTTGTAGAGCTATTGCCACAT
8170 8180 8190 8200 8210 8220 8230

G W O V V K K * C G W H A Y C K G K N E T S * A S
G G K W S K S S V V G W P T V R E R M R A E P
V A S G O K V V W L D G L L * G K E * O E L S O
GGGTGGCAAGTGGTCAAAAAGTAGTGTGGTTGGATGGCCTACTGTAAGGGAAGCAATGAGACGAGCTGAGCCAG
8290 8300 8310 8320 8330 8340 8350

S N H K * O Y S S Y O C C L C L A R S T R G C G G
A I T S S N T A A T N A A C A W L F A D E E E E
U S O V A I U O L P M L L V P G * K H K R S S
AGCAATCACAAGTAGCAATACAGCAGCTACCAATGCTGCTTGGCTTGAAGGACAGAGGAGGAGGAGG
8410 8420 8430 8440 8450 8460 8470

U G S C R S * P L F K R K G G T C
39 15/15

Fig 18

08 026736

A K T H L H M C C A L E C * L E * * I S
G K L I C T T A V P W N A S W S N K S L
TGGAAAACCTCATTTCACCACTGCTGTGCCTTGGAAATGCTAGTTGGAGTAATAAATCTC
7510 7520 7530 7540 7550 7560

O A * Y I P * L K N R K T S K K R M N K
K L N T F L N * R I A K P A R K E * T R
S L I H S L I E E S O V O Q E K N E O E
AAGCTTAATACATTCTTAATTGAAGAATCGCAAAACCAGCAAGAAAAGAATGAACAAG
7630 7640 7650 7660 7670 7680

C G I * K Y S * * * * E A W * V * E * F
V V Y K N I H N D S R R L G R F K N S F
W Y I K I F I M I V G G L V G L / R / I V F
GTGGTATATAAAAAATATTTCATAATGATAGTAGGAGGCTTGCTAGGTTTAAGAATAGTTT
7750 7760 7770 7780 7790 7800

P T S O P R G O P T G P K E * K K K V E
P P P N P E G T R O A R R N R R R R W R
H L P T P R G P D R P E G I E E E G G E
CCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGCTGGAG
7870 7880 7890 7900 7910 7920

I C G A L C L F S Y H R L R D L L L I V
S A E P C A S S A T T A * E T Y S * L *
L R S L V P L O L P P L E R L T L D C N
TCTGCGGAGCCTTGTGCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTTGATTGTA
7990 8000 8010 8020 8030 8040

L L O Y W S O E L K N S A V S L L N A T
S Y S I G V R N * R I V L L A C S M P O
P T V L E S G T K E * C C * L A O C H S
TCCTACAGTATTGGAGTCAGGAACATAAGAATAGTGCTGTTAGCTTGCTCAATGCCACA
8110 8120 8130 8140 8150 8160

A I P H I P R R I R O G L E R I L L * D
L F A T Y L E E * D R A W K G F C Y K M
Y S P H T * K N K T G L G K D F A I R W
CTATTGCCACATACCTAGAAGAATAAGACAGGCTTGGAAAGGATTTTGCTATAAGAT
8230 8240 8250 8260 8270 8280

T S * A S S R A G G S S I S R P G K T W
R A E P A A D G V G A A S R D L E K H G
E L S O O O * G W E O H L E T W K N H E
GAGCTGAGCCAGCAGCAGATGGGCTGGGAGCAGATCTCGACACCTGGAAAAACATGG
8350 8360 8370 8380 8390 8400

G G G G G F S S H T S G T F K T N D L
E E E V G F P V T P G V P L R P M T Y
R R R R Y F S H L R Y L * D O * L T
AGGAGGAGGAGG GGGTTTCCAGTCACACCTCAGGTACCTTTAAGACCAATGACTTA
8470 8480 8490 8500 8510 8520

Using track
L P K T P * S V D L P H T R L L
15/15 B/L

40

Fig 19

10	20	30	40	50	60
AAGCTTGCCT	TGAGTGCCTC	AAGTAGTGTG	TGCCCCGTCTG	TTGTGTGACT	CTGGTAACTA
70	80	90	100	110	120
GAGATCCCTC	AGAQCCTTTT	AGTCAGTGTG	GAAAAATCTCT	AGCAGTGGCG	CCCGAACAGG
130	140	150	160	170	180
GACTTGAAAG	CGAAAGGGAA	ACCAGAGGAG	CTCTCTCGAC	GCAGGACTCG	GCTTGCTGAA
190	200	210	220	230	240
GCGCGCACGG	CAAGAGGGCA	GGGGAGGGCA	CTGGTGAGTA	CGCCAAAAAT	TTTGACTAGC
250	260	270	280	290	300
GGAGGCTAGA	AGGAGAGAGA	TGGGTGGCAG	AGCCTCAGTA	TTAAGCGGGG	GAGAAATTAGA
310	320	330	340	350	360
TCGATCGGAA	AAAAATTCGGT	TAAGGCCAGG	GGCAAAGAAA	AAATATAAAT	TAAACATAT
370	380	390	400	410	420
AGTATGGGCA	AGCAGGGAGC	TAGAACGATT	CGCTGTTAAT	CCTGGCCTGT	TAGAAACAIC
430	440	450	460	470	480
AGAAGGCTGT	AGACAAATAC	TGGGACAGCT	ACAACCATCC	CTTCAGACAG	GATCAGAAGA
490	500	510	520	530	540
ACTTAGATCA	TTATATAATA	CAGTAGCAAC	CCTCTATTGT	GTGCATCAAA	GGATAGAGAT
550	560	570	580	590	600
AAAAGACACC	AAGGAACCTT	TAGACAAGAT	AGAGGAAGAG	CAAAACAAAA	GTAAGAAAAA
610	620	630	640	650	660
AGCACAGCAA	GCAGCAGCTG	ACACAGGACA	CAGCAGCCAG	GTCAGCCAAA	ATTACCCTAT
670	680	690	700	710	720
ACTGCAGAAC	ATCCAGGGGC	AAATGGTACA	TCAGGCCATA	TCACCTAGAA	CTTTAAATCC
730	740	750	760	770	780
ATGGGTAAAA	GTAGTACAAG	AGAAGGCTTT	CAGCCCAGAA	GTGATACCCA	TGTTTTTCAGC
790	800	810	820	830	840
ATTATCAGAA	GGAGCCACCC	CACAAGATTT	AAACACCATG	CTAAACACAG	TGGGGGGACA
850	860	870	880	890	900
TCAAGCAGCC	ATGCAAATGT	TAAAAGAGAC	CATCAATGAG	GAAGCTGCAG	AATGGGATAG
910	920	930	940	950	960
AGTGCATCCA	GTGCATGCAG	GGCCTATTGC	ACCAGGCCAG	ATGAGAGAAC	CAAGGGGAAG
970	980	990	1000	1010	1020
TGACATAGCA	GGAACACTA	GTACCCTTCA	GGAACAAATA	GGATGGATGA	CAATAATCC
1030	1040	1050	1060	1070	1080
ACCTATCCCA	GTAGGAGAAA	TTTATAAAAC	ATGGATAATC	CTGGGATTAA	ATAAAATAGT
1090	1100	1110	1120	1130	1140

AATAATGTAT AGCCCTACCA GCATTCTGGA CATAAGACAA GGACCAAAAG AACCCTTTAG
 1150 1160 1170 1180 1190 1200
 AGACTATGTA GACCGGTTCT ATAAAACTCT AAGAGCCGAG CAAGCTTCAC AGGAGGTAAA
 1210 1220 1230 1240 1250 1260
 AATTTGGATG ACAGAAACCT TGTGGTCCA AAATGCCGAC CCAGATTGTA AGACTATTTT
 1270 1280 1290 1300 1310 1320
 AAAAGCATTG GGACCAGCAG CTACACTAGA AGAAATGATG ACAGCATGTC AGGGAGTGGG
 1330 1340 1350 1360 1370 1380
 AGGACCCGGC CATAAGGCAA GAGTTTTGGC TGAAGCAATG AGCCAAGTAA CAAATTCAGC
 1390 1400 1410 1420 1430 1440
 TACCATAATC ATGCAAAGAG GCAATTTTAG GAACCAAGA AAGATTGTTA AGTGTTCCTA
 1450 1460 1470 1480 1490 1500
 TTGTGGCAAA GAAGGGCACA TAGCCAGAAA TTGCAGGGCC CCTAGGAAAA AGGGCTGTTG
 1510 1520 1530 1540 1550 1560
 GAAATGTGGA AAGGAAGGAC ACCAAATGAA AGATTGTACT GAGAGACAGG CTAATTTTTT
 1570 1580 1590 1600 1610 1620
 AGGGAAGATC TGGCCTTCCT ACAAGGGAAG GCCAGGGAAT TTTCTTCAGA GCAGACCAGA
 1630 1640 1650 1660 1670 1680
 GCCAACAGCC CCACCAGAAG AGAGCTTCAG GTCTGGGGTA GAGACAACAA CTCCCTCTCA
 1690 1700 1710 1720 1730 1740
 GAAGCAGGAG CCGATAGACA AGGAACGTGA TCCTTTAACT TCCCTCAGAT CACTCTTTGG
 1750 1760 1770 1780 1790 1800
 CAACGACCCC TCGTCACAAT AAAGATAGGG GGGCAACTAA AGGAAGCTCT ATTAGATACA
 1810 1820 1830 1840 1850 1860
 GGAGCAGATG ATACAGTATT AGAAGAAATG AGTTTGCCAG GAAGATGGAA ACCAAAAATG
 1870 1880 1890 1900 1910 1920
 ATAGGGGGAA TTGGAGGTTT TATCAAAGTA AGACAGTATG ATCAGATACT CATAGAAATC
 1930 1940 1950 1960 1970 1980
 TGTGGACATA AAGCTATAGG TACAGTATTA GTAGGACCTA CACCTGTCAA CATAATTGGA
 1990 2000 2010 2020 2030 2040
 AGAAATCTGT TGAATCAGAT TGGTTGCACT TTAATTTTC CCATTAGTCC TATTGAAACT
 2050 2060 2070 2080 2090 2100
 GTACCAGTAA AATTAAGGCC AGGAATGGAT GGCCCAAAAG TTAACAATG GCCATTGACA
 2110 2120 2130 2140 2150 2160
 GAAGAAAAAA TAAAAGCATT AGTAGAAATT TGTACAGAAA TGGAAAAGGA AGGGAAAAAT
 2170 2180 2190 2200 2210 2220
 TCAAAAATTG GGCTGAAAA TCCATACAAT ACTCCAGTAT TTGCCATAAA GAAAAAAGAC
 2230 2240 2250 2260 2270 2280
 AGTACTAAAT GGAGAAAAAT AGTAGATTTC AGAGAACTTA ATAAGAGAAC TCAAGACTTC
 2290 2300 2310 2320 2330 2340
 TGGGAAGTTC AATTAGGAAT ACCACATCCC GCAGGGTTAA AAAAGAAAAA ATCAGTAACA
 2350 2360 2370 2380 2390 2400

GACTGGGTTG TGGGTGATGC ATATTTTTCG GTTCCCTTAG ATGAAGACTT CAGGAAGTAT
 2410 2420 2430 2440 2450 2460
 ACTGCATTTA CCATACCTAG TATAAACAAAT GAGACACCAG GGATTAGATA TCAGTACAAT
 2470 2480 2490 2500 2510 2520
 GTGCTTCCAC AGGGATGGAA AGGATCACCA GCAATATTCC AAAGTAGCAT GACAAAAATC
 2530 2540 2550 2560 2570 2580
 TTAGAGCCTT TTAGAAAAACA AAATCCAGAC ATAGTTATCT ATCAATACAT GGATGATTTG
 2590 2600 2610 2620 2630 2640
 TATGTAGGAT CTGACTTAGA AATAGGGCAG CATAGAACAA AAATAGAGGA GCTGAGACAA
 2650 2660 2670 2680 2690 2700
 CATCTGTTGA GGTGGGGACT TACCACACCA GACAAAAAAC ATCAGAAAGA ACCTCCATTC
 2710 2720 2730 2740 2750 2760
 CTTTGGATGG GTTATGAACT CCATCCTGAT AAATGGACAG TACAGCCTAT AGTGCTGCCA
 2770 2780 2790 2800 2810 2820
 GAAAAAGACA GCTGGACTGT CAATGACATA CAGAAGTTAG TGGGAAATTT GAATTGGGCA
 2830 2840 2850 2860 2870 2880
 AGTCAGATTT ACCCAGGGAT TAAAGTAAGG CAATTATGTA AACTCCTTAG AGGAACCAAA
 2890 2900 2910 2920 2930 2940
 GCACTAACAG AAGTAATACC ACTAACAGAA GAAGCAGAGC TAGAACTGGC AGAAAAACAGA
 2950 2960 2970 2980 2990 3000
 GAGATTCTAA AAGAACCAGT ACATGGAGTG TATTATGACC CATCAAAAAGA CTTAATAGCA
 3010 3020 3030 3040 3050 3060
 GAAATACAGA AGCAGGGGCA AGGCCAATGG ACATATCAAA TTTATCAAGA GCCATTTAAA
 3070 3080 3090 3100 3110 3120
 AATCTGAAAA CAGGAAAAATA TGCAAGAACG AGGGGTGCCC AACTAATGA TGTAACAAA
 3130 3140 3150 3160 3170 3180
 TTAACAGAGG CAGTGCAAAA AATAACCACA GAAAGCATAG TAATATGGGG AAAGACTCCT
 3190 3200 3210 3220 3230 3240
 AAATTTAAAC TACCCATACA AAAGGAAACA TGGGAAACAT GGTGGACAGA GTATTGGCAA
 3250 3260 3270 3280 3290 3300
 GCCACCTGGA TTCCTGAGTG GGAGTTTGTC AATACCCCTC CTTTAGTGAA ATTATGCTAC
 3310 3320 3330 3340 3350 3360
 CAGTTAGAGA AAGAACCCAT AGTAGGAGCA GAAACGTTCT ATGTAGATGG GGCACCTAGC
 3370 3380 3390 3400 3410 3420
 AGGGAGACTA AATTAGGAAA AGCAGGATAT GTTACTAATA GAGGAAGACA AAAAGTTGTC
 3430 3440 3450 3460 3470 3480
 ACCCTAACTG ACACAACAAA TCAGAAGACT GAGTTACAAG CAATTCATCT AGCTTTGCAG
 3490 3500 3510 3520 3530 3540
 GATTCGGGAT TAGAAGTAAA TATAGTAAAC GACTCACAAT ATGCATTAGG AATCATTCAA
 3550 3560 3570 3580 3590 3600
 GCACAACCAG ATAAAAGTGA ATCAGAGTTA GTCAATCAAA TAATAGAGCA CTTAATAAAA
 3610 3620 3630 3640 3650 3660

Fig 22

126.44445 TCTATCTGGC ATGGGTACCA GCACACAAAG GAATTGGAGG AAATGAACAA
 3670 3680 3690 3700 3710 3720
 GTAGATAAAT TAGTCAGTGC TCGAATCAGG AAAGTACTAT TTTTAGATGG AATAGATAAG
 3730 3740 3750 3760 3770 3780
 GCCCAAGATG AACATGAGAA ATATCACAGT AATTGGAGAG CAATGGCTAG TGATTTTAAAC
 3790 3800 3810 3820 3830 3840
 CTGCCACCTG TAGTAGCAAA AGAAATAGTA GCCAGCTGTG ATAAATGTCA GCTAAAAGGA
 3850 3860 3870 3880 3890 3900
 GAAGCCATGC ATGGACAAGT AGACTGTAGT CCAGGAATAT GGCAACTAGA TTGTACACAT
 3910 3920 3930 3940 3950 3960
 TTAGAAGGAA AAGTTATCCT GGTAGCAGTT CATGTAGCCA GTGGATATAT AGAAGCAGAA
 3970 3980 3990 4000 4010 4020
 GTTATTCAG CAGAAACAGG GCAGGAAACA GCATACTTC TTTTAAAT AGCAGGAAGA
 4030 4040 4050 4060 4070 4080
 TGGCCAGTAA AAACAATACA TACAGACAAT GGCAGCAATT TCACCAGTAC TACGGTTAAG
 4090 4100 4110 4120 4130 4140
 GCGCCCTGTT GGTGGGCGGG AATCAAGCAG GAATTTGGAA TTCCCTACAA TCCCCAAAGT
 4150 4160 4170 4180 4190 4200
 CAAGGAGTAG TAGAATCTAT GAATAAGAA TTAAGAAAAA TTATAGGCCA GGTAAGAGAT
 4210 4220 4230 4240 4250 4260
 CAGGCTGAAC ATCTTAAGAC AGCAGTACAA ATGGCAGTAT TCATCCACAA TTTTAAAGA
 4270 4280 4290 4300 4310 4320
 AAAGGGGGGA TTGGGGGGTA CAGTGCAGGG GAAAGAATAG TAGACATAAT AGCAACAGAC
 4330 4340 4350 4360 4370 4380
 ATACAACTA AAGAATTACA AAAACAAATT ACAAAAATTC AAAATTTTCG GGTTTATTAC
 4390 4400 4410 4420 4430 4440
 AGGGACAGCA GAGATCCACT TTGCAAAGGA CCAGCAAAGC TCCTCTGGAA AGGTGAAGGG
 4450 4460 4470 4480 4490 4500
 GCAGTAGTAA TACAAGATAA TAGTGACATA AAAGTAGTGC CAAGAAGAAA AGCAAAGATC
 4510 4520 4530 4540 4550 4560
 ATTAGGGATT ATCGAAAACA GATGGCAGGT GATGATTGTG TGGCAAGTAG ACAGGATGAG
 4570 4580 4590 4600 4610 4620
 GATTAGAACA TGGAAAAGTT TAGTAAAACA CCATATGTAT GTTTCAGGGA AAGCTAGGGG
 4630 4640 4650 4660 4670 4680
 ATGGTTTTAT AGACATCACT ATGAAAGCCC TCATCCAAGA ATAAGTTCAG AAGTACACAT
 4690 4700 4710 4720 4730 4740
 CCCACTAGGG GATGCTAGAT TGGTAATAAC AACATATTGG GGTCTGCATA CAGGAGAAAG
 4750 4760 4770 4780 4790 4800
 AGACTGGCAT CTGGGTCAGG GAGTCTCCAT AGAATGGAGC AAAAAGAGAT ATAGCACACA
 4810 4820 4830 4840 4850 4860
 AGTAGACCCT GAAGTAGCAG ACCAACTAAT TCATCTGTAT TACTTTGACT GTTTTTCAGA
 4870 4880 4890 4900 4910 4920

44

CTCTCTATA AGAAAGCCCT TATTAGGACA TATAGTTAGC CCTAGGTGTG AATATCAAGC

4930 4940 4950 4960 4970 4980
AGGACATAAC AAGGTAGGAT CTCTACAATA CTTGGCACTA GCAGCATTA AATACACAAA

4990 5000 5010 5020 5030 5040
AAAGATAAAG CCAGCTTTGC CTAGTGTTAC GAAACTGACA GAGGATAGAT GGAACAAGCC

5050 5060 5070 5080 5090 5100
CCAGAAGACC AAGGGCCACA GAGGGAGCCA CACAATGAAT GGACACTAGA GCTTTTAGAG

5110 5120 5130 5140 5150 5160
GAGCTTAAGA ATGAAGCTGT TAGACATTTT CCTAGGATTT GGCTCCATGG CTTAGGGCAA

5170 5180 5190 5200 5210 5220
CATATCTATG AAACCTTATGG GGATACCTGG GCAGGAGTGG AAGCCATAAT AAGAATTCTG

5230 5240 5250 5260 5270 5280
CAACAACCTGC TGTTTATCCA TTTCAGAAAT GGGTGTGAC ATAGCAGAAT AGGCGTTACT

5290 5300 5310 5320 5330 5340
CAACAGAGGA GAGCAAGAAA TGGAGCCAGT AGATCCTAGA CTAGAGCCCT GGAAGCATCC

5350 5360 5370 5380 5390 5400
AGGAAGTCAG CCTAAAACCTG CTTGTACCAC TTGCTATTGT AAAAACTGTT GCTTTTCAATT

5410 5420 5430 5440 5450 5460
CCAAGTTTGT TTCACAACAA AAGCCTTAGG CATCTCCTAT GGCAGGAAGA AGCGGAGACA

5470 5480 5490 5500 5510 5520
GCGACGAAGA CCTCCTCAAG GCAGTCAGAC TCATCAAGTT TCTCTATCAA AGCAGTAAGT

5530 5540 5550 5560 5570 5580
AGTACATGTA ATGCAACCTA TACAAATAGC AATAGCAGCA TTAGTAGTAG CAATAATAAT

5590 5600 5610 5620 5630 5640
AGCAATAGTT GTGTGGTCCA TAGTAATCAT AGAATATAGG AAAATATTAA GACAAAGAAA

5650 5660 5670 5680 5690 5700
AATAGACAGG TTAATTGATA GACTAATAGA AAGAGCAGAA GACAGTGGCA ATGAGAGTGA

5710 5720 5730 5740 5750 5760
AGGAGAAATA TCAGCACTTG TGGAGATGGG GGTGGAAATG GGGCACCATG CTCCTTGGGA

5770 5780 5790 5800 5810 5820
TATTGATGAT CTGTAGTGCT ACAGAAAAAT TGTGGGTAC AGTCTATTAT GGGGTACCTG

5830 5840 5850 5860 5870 5880
TGTGGAAGGA AGCAACCACC ACTCTATTTT GTGCATCAGA TGCTAAAGCA TATGATACAG

5890 5900 5910 5920 5930 5940
AGGTACATAA TGTTTGGGCC ACACATGCCT GTGTACCCAC AGACCCCAAC CCACAAGAAG

5950 5960 5970 5980 5990 6000
TAGTATTGGT AAATGTGACA GAAAAATTTA ACATGTGGAA AAATGACATG GTAGAACAGA

6010 6020 6030 6040 6050 6060
TGCATGAGGA TATAATCAGT TTATGGGATC AAAGCCTAAA GCCATGTGTA AAATTAACCC

6070 6080 6090 6100 6110 6120
CACTCTGTGT TAGTTTAAAG TGCACGTATT TGGGGAATGC TACTAATACC AATAGTAGTA

6130 6140 6150 6160 6170 6180

45

ATACCAATAG TAGTAGCGGG GAAATGATGA TGGAGAAAGG AGAGATAAAA AACTGCTCTT

6170 6200 6210 6220 6230 6240
TCAATATCAG CACAAGCTA AGAGGTAAGG TGCAGAAAGA ATATGCATTT TTTTATAAAC

6250 6260 6270 6280 6290 6300
TTGATATAAT ACCAATAGAT AATGATACTA CCAGCTATAC GTTGACAAGT TGTAACACCT

6310 6320 6330 6340 6350 6360
CAGTCATTAC ACAGGCCTGT CCAAAGGTAT CCTTTGAGCC AATTCCCATA CATTATTGTG

6370 6380 6390 6400 6410 6420
CCCCGGCTGG TTTTGCGATT CTAAAATGTA ATAATAAGAC GTTCAATGGA ACAGGACCAT

6430 6440 6450 6460 6470 6480
GTACAAATGT CAGCACAGTA CAATGTACAC ATGGAATTAG GCCAGTAGTA TCAACTCAAC

6490 6500 6510 6520 6530 6540
TGCTGTTGAA TGGCAGTCTA GCAGAAGAAG AGGTAGTAAT TAGATCTGCC AATTTACAG

6550 6560 6570 6580 6590 6600
ACAATGCTAA AACCATAATA GTACAGCTGA ACCAATCTGT AGAAATTAAT TGTACAAGAC

6610 6620 6630 6640 6650 6660
CCAACAACAA TACAAGAAAA AGTATCCGTA TCCAGAGGGG ACCAGGGAGA GCATTTGTGA

6670 6680 6690 6700 6710 6720
CAATAGGAAA AATAGGAAAT ATGAGACAAG CACATTGTAA CATTAGTAGA GCAAAATGCA

6730 6740 6750 6760 6770 6780
ATGCCACTTT AAAACAGATA GCTAGCAAAT TAAGAGAACA ATTTGGAAAT AATAAAACAA

6790 6800 6810 6820 6830 6840
TAATCTTTAA GCAATCCTCA GGAGGGGACC CAGAAATTGT AACGCACAGT TTTAATTGTG

6850 6860 6870 6880 6890 6900
GAGGGGAATT TTTCTACTGT AATTCAACAC AACTGTTTAA TAGTACTTGG TTTAATAGTA

6910 6920 6930 6940 6950 6960
CTTGGAGTAC TGAAGGGTCA AATAACACTG AAGGAAGTGA CACAATCACA CTCCCATGCA

6970 6980 6990 7000 7010 7020
GAATAAAACA ATTTATAAAC ATGTGGCAGG AAGTAGGAAA AGCAATGTAT GCCCCTCCCA

7030 7040 7050 7060 7070 7080
TCAGCGGACA AATTAGATGT TCATCAAATA TTACAGGGCT GCTATTAACA AGAGATGGTG

7090 7100 7110 7120 7130 7140
GTAATAACAA CAATGGGTCC GAGATCTTCA GACCTGGAGG AGGAGATATG AGGGACAATT

7150 7160 7170 7180 7190 7200
GGAGAAGTGA ATTATATAAA TATAAAGTAG TAAAAATTGA ACCATTAGGA GTAGCACCCA

7210 7220 7230 7240 7250 7260
CCAAGGCAAA GAGAAGAGTG GTCCAGAGAG AAAAAAGAGC AGTGGGAATA GGACCTTTGT

7270 7280 7290 7300 7310 7320
TCCTTGGGTT CTTGGGAGCA GCAGGAAGCA CTATGGGGCC ACGGTCAATG ACGCTGACGG

7330 7340 7350 7360 7370 7380
TACAGGCCAG ACAATTATTG TCTGGTATAG TGCAGCAGCA GAACAATTTG CTCAGGGCTA

7390 7400 7410 7420 7430 7440

08 026736

TTGAGGCGCA ACAGCATCTG TTGCAACTCA CAGTGTGGGG CATCAAGCAG CTCCAGGCAA

7450 7460 7470 7480 7490 7500
GAATCCTGGC TGTGGAAAGG TACCTAAAGG ATCAACAGCT CCTGGGGATT TGGGGTTGCT

7510 7520 7530 7540 7550 7560
CTGGAAACT CATTTGCACC ACTGCTGTGC CTTGGAATGC TAGTTGGAGT AATAAATCTC

7570 7580 7590 7600 7610 7620
TGGAAACAGAT TTGGAATAAC ATGACCTGGA TGGAGTGGGA CAGAGAAATT AACAATTACA

7630 7640 7650 7660 7670 7680
CAAGCTTAAT ACATTCCTTA ATTGAAGAAT CGCAAAACCA GCAAGAAAAG AATGAACAAG

7690 7700 7710 7720 7730 7740
AATTATTGGA ATTAGATAAA TGGGCAAGTT TGTGGAATTG GTTTAACATA ACAAATTGGC

7750 7760 7770 7780 7790 7800
TGTGGTATAT AAAAATATTG ATAATGATAG TAGGAGGCTT GCTAGGTTTA AGAATAGTTT

7810 7820 7830 7840 7850 7860
TTCTGTACT TTCTATAGTG AATAGAGTTA GGCAGGGATA TTCACCATTG TCGTTTCAGA

7870 7880 7890 7900 7910 7920
CCCACCTCCC AACCCCGAGG GGACCCGACA GGCCCGAAGG AATAGAAGAA GAAGGTGGAG

7930 7940 7950 7960 7970 7980
AGAGAGACAG AGACAGATCC ATTCGATTAG TGAACGGATC CTTAGCACTT ATCTGGGACG

7990 8000 8010 8020 8030 8040
ATCTGCGGAG CCTTGTGCCT CTTGAGCTAC CACCGCTTGA GAGACTTACT CTTGATTGTA

8050 8060 8070 8080 8090 8100
ACGAGGATTG TGGAACTTCT GGGACGCAGG GGGTGGGAAG CCCTCAAATA TTGGTGGAA

8110 8120 8130 8140 8150 8160
CTCCTACAGT ATTGGAGTCA GGAACATAAG AATAGTGCTG TTAGCTTGCT CAATGCCACA

8170 8180 8190 8200 8210 8220
GCCATAGCAG TAGCTGAGGG GACAGATAGG GTTATAGAAG TAGTACAAGG AGCTTGTAGA

8230 8240 8250 8260 8270 8280
GCTATTGCC ACATACCTAG AAGAATAAGA CAGGCGTTGG AAAGGATTTT GCTATAAGAT

8290 8300 8310 8320 8330 8340
GGGTGGCAAG TGGTCAAAAA GTAGTGTGCT TGGATGGCCT ACTGTAAGGG AAAGAATGAG

8350 8360 8370 8380 8390 8400
ACGAGCTGAG CCAGCAGCAG ATGGGGTGGG AGCAGCATCT CGAGACCTGG AAAACATGG

8410 8420 8430 8440 8450 8460
AGCAATCACA AGTAGCAATA CAGCAGCTAC CAATGCTGCT TGTGCCTGGC TAGAAGCACA

8470 8480 8490 8500 8510 8520
AGAGGAGGAG GAGGTGGGTT TTCCAGTCAC ACCTCAGGTA CCTTTAAGAC CAATGACTTA

8530 8540 8550 8560 8570 8580
CAAGGCAGCT GTAGATCTTA GCCACTTTTT AAAAGAAAAG GGGGGACTGG AAGGGCTAAT

8590 8600 8610 8620 8630 8640
TCACTCCCAA CGAAGACAAG ATATCCTTGA TCTGTGGATC TACCACACAC AAGGCTACTT

8650 8660 8670 8680 8690 8700

CCCTGATTGG CAGAACTACA CACCAGGGCC AGGGGTGAGA TATCCACTGA CCTTTGGATG
8710 8720 8730 8740 8750 8760
GTGCTACAAG CTAGTACCAG TTGAGCCAGA TAAGGTAGAA GAGGCCAATA AAGGAGAGAA
8770 8780 8790 8800 8810 8820
CACCAGCTTG TTACACCCTG TGAGCCTGCA TGGAAATGGAT GACCCTGAGA GAGAAGTGTT
8830 8840 8850 8860 8870 8880
AGAGTGGAGG TTTGACAGCC GCCTAGCATT TCATCACCTG GCCCGAGAGC TGCATCCGGA
8890 8900 8910 8920 8930 8940
GTACTTCAAG AACTGCTGAC ATCGAGCTTG CTACAAGGGA CTTTCCGCTG GGCACTTTCC
8950 8960 8970 8980 8990 9000
AGGGAGGCGT GGCCTGGGCG GAACTGGGGA GTGGCGAGCC CTCAGATGCT GCATATAAGC
9010 9020 9030 9040 9050 9060
AGCTGCTTTT TGCCTGTACT GGGTCTCTCT GGTAGACCA GATTTGAGCC TGGGAGCTCT
9070 9080 9090 9100 0 0
CTGGCTAACT AGGGAACCCA CTGCTTAAGC CTCAATAAAG CTT

Fig 26